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THE CHICAGO DENTAL SOCIETY

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Some Factors Affecting the Full Lower Denture*

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The purpose of this paper is to highlight the prior importance of biology in full lower denture construction and especially to emphasize the importance of some anatomical aspects of the tissues concerned. Too often a



Dr. Lammie

static view is taken of anatomy; in point of fact the form of the parts is constantly changing and this is of important practical significance in full denture prosthetics. Accordingly it is proposed to examine the changing form of the mucosa, musculature, and bone in some detail, and to consider the practical significance of these changes.

THE CHANGING MUCOSA

Aging is characterized by a reduction in the number of component cells in a tissue especially when this is highly differentiated in nature. The oral mucosa is no exception to this generalization, and in old people the oral mucosa becomes

thinner (Robinson and Boling, 1952).¹ There is also an associated atrophy of the submucosal tissues so that the alveolar bone and facial muscles come to be covered with a soft tissue layer of decreasing depth. As well as showing a decrease in thickness the oral mucosa also shows a reduction in surface area with aging. This observation is based on clinical observation rather than on accurate measurement. However, when it is considered that the alveolar ridges become resorbed the truth of this statement becomes apparent. Further, the degree of invagination of the cheek mucosa into the mouth is often reduced as is the amplitude of secondary undulations of this surface. The clinical observation of Campbell (1955)² and Robinson and Boling (1952)¹ that there is approximation of the upper and lower jaws is compatible with the postulates of Thompson (1946, 1954).^{3,4} This mechanism too, is effective in allowing for a reduction in surface area of the oral mucosa. A comparison of coronal sections in the first molar area helps to illustrate this point. It will be noticed that the oral mucosa is tending to economize in area and become more circular in form. This reduction in surface area of the oral mucosa may sometimes be associated with a similar change in the skin of the face. This is conventionally described as being wrinkled

*Presented at the 1956 Midwinter Meeting of the Chicago Dental Society.

[Dr. Lammie qualified in dentistry from the Edinburgh Dental School, Scotland in 1943. After serving in the Royal Air Force in Africa during the war he came back to study science in the University of Edinburgh. In 1952 he was awarded a Ph.D. of the University of Birmingham, England for work on the Tungsten Carbide Bur.

He has been on the faculty of the Dental Prosthetics Departments of the Universities of Birmingham and Liverpool, England.

In the Fall of last year on the invitation of Dean George W. Teuscher, Dr. Lammie came to Northwestern University Dental School to work under Dr. Eugene W. Skinner in the Department of Dental Materials and to teach in the School for one year.

He is co-author of a book on partial dentures and author of another on full dentures.]

in old age, the explanation given being that the underlying soft tissues especially the fat has atrophied. However, old people are sometimes seen who, although displaying general atrophy, have a more taut, smooth skin.

In addition to the macroscopic changes described, microscopic examination reveals histological changes in the nature of the elastic fibers. Similar changes have been described in the skin (Dick, 1947).⁵ The elastic fibers become thicker and straighter in form, and it has been suggested that there is a replacement of elastin by collagen. This change was noted when biopsy specimens were taken from the cheek surface and mucosal reflection in young and old patients.

The net result of the reduction in surface area and the change in nature of the elastic fibers is a loss of elastic quality in the cheek and mucosal reflection. This result was also noted by Burket (1946)⁶ and has considerable practical significance.

Sir Wilfred Fish (1952)⁷ has emphasized the importance of the buccal flange in retaining the full lower denture. This concave denture extension in the molar area is described as extending beneath the middle group of buccinator fibers thereby providing a surface upon which the muscle may act to provide a retaining force. Whereas this finds application in a younger age group the lack of elastic quality in the oral mucosa precludes its use in older people who show atrophic changes. Its use in such people results in a diminished denture retention and pain in the stretched tissue. Thus with aging this flange should be reduced and it will

be noted that the lower denture assumes a form more appropriate to the changed shape of the mouth in this region.

Further, with loss of elastic quality the sulcus form tends to change more on opening the mouth; the mucosal reflection is raised nearer to the alveolar crest, and a sharp angle between alveolar and cheek mucosa is associated with a tautness in the tissues. This change can only mean that a denture extended to the resting or compressed depth of the sulcus, and especially if it has a thick periphery, is subjected to a displacing force as the mouth opens. The magnitude of this force depends upon the degree of change in the tissues as well as the amount of opening. To avoid displacement in these cases it becomes necessary to extend the denture periphery to a functional height and to maintain a thin denture flange.

Whereas in patients where the tissues are well preserved it is usual to be able to develop a positive retention in the denture through a "sealing" action, in those cases which show marked atrophic changes it is usually impossible to secure such an end result compatible with comfort. The seal acts either on the polished surface of the denture or at its periphery, and its purpose is to secure a meniscus of saliva of extreme thinness throughout the entire denture border. This condition is effected by the tissues maintaining a slight elastic force against the polished surface or periphery of the denture. To effect this an elastic quality in the tissues is necessary. If the elastic quality of the mucosa is not present and if the submucosa is reduced in depth, the potentiality to develop a seal is not present; then

one must accept the fact that a positive retention cannot be obtained. In particular two areas in which it is necessary to develop a peripheral rather than facial seal should be examined routinely prior to selecting the lower impression technique. The first is the retro-molar region; unless compressible soft tissue is present in this region and a post damming can consequently be effected, it is not possible to obtain a sealing action. The second region where peripheral compression is necessary because of the absence of a vertical soft tissue surface in apposition to the polished denture surface, is the floor of the mouth in the anterior lingual area. Often in the mid-line the resorbed alveolar ridge lies on a lower level than the superior genial tubercles which give origin to the genio-glossus muscle. In such a case it is constantly found that there is no resilient soft tissue layer covering the notch between the alveolus and the raised tubercles. This condition again makes it impossible to maintain a seal.

THE CHANGING MUSCULATURE

In the early twenties Gabell (1924)⁸ drew attention to a migration of the origin of the buccinator fibers on the body of the mandible towards the mid-line. However, it is considered that a more important change of this nature concerns the mentalis muscle. This muscle takes origin bilaterally from a circular area on the alveolar ridge and body of the mandible above the mental tuberosity. The highest point of origin lies superior to the position of the mucosal reflection when the natural teeth are standing, and over the roots of the lateral incisor and canine teeth. The fibers of this muscle diverge medially and laterally to be inserted in the skin of the chin, and also superiorly and inferiorly so that some are inserted into the lower lip (Sicher, 1952).⁹ When the teeth are lost and gross alveolar resorption follows the ridge level falls below the former level of origin of the mentalis muscle. This fact means that the more superior fibers of the mentalis must fold over on to the new ridge crest

to establish the former area of origin. These changes have been observed in the surgical dissections of Mr. J. S. H. Collinge of the Department of Oral Surgery of the University of Liverpool, England, and also in preparations in the cadaver. The more vertical direction of the superior fibers of this muscle partly causes a change in the lip form noted in aging.

The lower lip in a young edentulous adult shows very little change in form when the teeth are extracted. It maintains its everted form with little or no change in the degree of the labio-mental angle. The visible red margin of the lip is substantial in amount and rounded in form. The atrophic lip in an edentulous adult has an inverted appearance, sloping back into the oral cavity, and as a result the labio-mental angle is obliterated. The visible red margin is now much thinner.

The described change in the form and position of the lower lip is caused partly by the changed direction of the superior mentalis fibers acting tonically and partly by an atrophy of the mucosa, skin, and soft tissues of the lip. Consequently upon this change the anterior vestibular sulcus is reduced or even obliterated, and in severe cases the lip appears to arise almost from the crest of the ridge.

Since placing any component of a denture in the field of action of a muscle leads to its displacement regardless of the degree of the retaining forces developed it is important to place the lower anterior teeth in the neutral zone between the lip on one hand and the tongue on the other. The preference of the writer is always to place the necks of the lower anteriors directly over the ridge. Whereas these, in a younger adult, can be given a natural forward inclination, in the atrophied case they must be sloped back so as to accommodate to the backwardly inclined lip. The labial facing of the dentures also becomes markedly reduced as the vestibular sulcus is obliterated. Certainly in these cases the popular theory of placing the teeth where they were can only lead to displacement of the denture; misguided attempts to restore an everted, aestheti-

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EDITORIAL

COURTESY AT DENTAL MEETINGS

It is just a year since the Editor made his debut and needless to say it has been a distinct pleasure. There were not too many brickbats thrown and the bouquets, the Editor is happy to say, were in preponderance. There have been many things about which the Editor could have written and some did reach the printed page but there has been one subject about which we did not editorialize and that is courtesy at dental meetings. Maybe *courtesy* isn't the proper term and it might better be expressed by the use of the term *consideration*. When talking about courtesy or consideration, I do not mean for the speaker alone but also for those who have come to listen and to learn. We are quite sure that none of the discourtesies which we will attempt to enumerate are deliberate but rather could be chargeable to thoughtlessness.

A good example of what we mean can be seen at our monthly program meetings. How often have you been disturbed by the commotion in the corridor outside of the meeting room. Each time the door is opened a blast which not only disturbs the listener, but the speaker as well, is loosed on the unsuspecting gathering by the noise created by those in the corridor visiting or greeting one another. Then there are those who come into the meeting late, spot a friend and go into conference disturbing not only those close at hand but the entire meeting. And there are those who come in late and proceed to walk down the center aisle interfering with the projection and again disturbing the speaker and the listener alike. Then, of course, there is always at least one who must carry on a running commentary on what the speaker has to say. This is out-and-out discourtesy and is inexcusable. Then too there are the boys who walk out in the midst of the lecture in order that they might get the 9:30 train. Again we would repeat we do not think that these thoughtless acts are deliberate.

All the discourtesies do not lie with the audience alone. There have been times when our speakers have been downright discourteous. From time to time we have had essayists who violated every tenet of courteous and professional conduct by using language more apt to be heard in the barroom than in a professional meeting especially when there was a liberal sprinkling of women present.

One of the very common discourtesies seen at the Midwinter Meeting is the failure of the audience to abide by the no smoking rule in certain small meeting rooms where smoking causes an undue hardship on all.

Now what can be done about these little things which become real problems? If you must visit, and there is nothing wrong in the fellowship which is a part of every meeting, do your visiting before the meeting and away from the meeting room. If you are late use the side aisles and enter as quietly as possible and don't strike up a conversation with a friend. Save your comments on the speaker for the question and answer period. If smoking is banned, abide by the rules.

Remember the next time you go to your dental Meeting:

1. Be on time.
2. Do your visiting before or after the meeting and away from the door of the meeting place.
3. Save your comments for the answer period.
4. If you must leave early sit near the back of the room.

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5. Be as considerate of your neighbor and the speaker as you would have them be if you were in their boots.

Then we are sure our meetings would be more meaningful—free from distractions, and disturbances, and we all will come away better informed and better for having been together and everyone will be happier.

BOYDEN APPEAL DENIED

John Boyden, one of the most flagrant violators of the Dental Practice Act and an operator of an illegal dental laboratory in Joliet for a number of years, has lost his appeal to have a sentence of one year and a fine of \$1,000.00 stayed. The Supreme Court upheld a finding of guilty of the lower Court and also Mr. Boyden has been permanently enjoined. He began serving his sentence Monday, June 18th. This is another signal victory for the forces of law and order and a real step in protecting the health and welfare of the public from the dangers of the illegal practice of dentistry. Our congratulations to the State's Attorney of Will County for a job well done.

Dental Laboratory Injunction Case Calendar

The Central Office constantly is receiving telephone calls relative to the status of the injunction suit and what is to happen during the ensuing months. Following is the time table of events past, present, and future.

1. March 22, 1956—appeal denied by Illinois Supreme Court.

2. May 22, 1956—petition by laboratories for rehearing denied by Illinois Supreme Court.

3. May 24, 1956—motion by appellants (laboratories) for stay of mandate pending disposition of appeal in Supreme Court of United States, allowed. In view of the fact that the mandate of the Illinois Supreme Court is stayed (not put into force and effect), the defendant laboratories will be permitted to continue their present operation, as far as the injunction case is concerned.

4. May 24, 1956—motion by Chicago Dental Society to retax costs against laboratories was continued to September, 1956 term of Illinois Supreme Court.

5. Appellants (laboratories) have ninety days from date of final judgment within which to file notice of appeal to United States Supreme Court, or until August 22, 1956.

6. Normal procedure would indicate the matter will be considered at the Oc-

tober 1956 term, with decision in October or November, 1956, if the decision of the Supreme Court of the United States is one refusing to review the decree.

7. Should the Supreme Court of the United States agree to hear the case on the merits, printed briefs and oral arguments would probably not be completed until late in the fall of 1956, with decision not likely until sometime during the winter of 1956-1957.

Our attorneys state: "We are confident that the court will not hear the case on its merits because there is no substantial Federal question involved."

The dental society will continue to push prosecution on the more than 20 criminal cases now in County Court and will continue investigations and prosecution of dentists violating the dental practice act.

We still are in need of the names of laboratory customers and each dental society member can render a valuable service to the public and to the profession by reporting all available information concerning persons whom you know to have received services in dental laboratories. We also want names and detailed information concerning dentists who are associated in any manner with ad-labs. All information will be held in confidence.

News Items

DR. BARALT RESIGNS AS LOYOLA DEAN

The resignation of Dr. A. Raymond Baralt, Jr., as dean of Loyola University's dental school was



Dr. Baralt

announced today by the university's president, the Very Rev. James F. Maguire, S.J.

Dr. Baralt, Loyola's dean for the past six years, has accepted the task of founding a dental school at the University of Puerto Rico. He will become the first dean of the new school.

Father Maguire also announced that Gustav W. Rapp, Ph.D., has been named acting dean of Loyola's dental school. An internationally known dental research scientist, Dr. Rapp is professor of biochemistry and physiology at the west side dental school.



Dr. Rapp

Dr. Baralt, 38, was born and educated in Philadelphia. He took his pre-dental training at St. Joseph's College, and received his D.D.S. degree from Temple University in 1942. He was on the faculty at Temple prior to being named Loyola's dean in May, 1950. His father is a prominent Puerto Rican dentist.

Father Maguire expressed his gratitude to Dr. Baralt for the part he played in maintaining the prestige of Loyola's dental school.

"Under Dr. Baralt's leadership, the university's dental school has greatly expanded its research program and has inaugurated a series of postgraduate pro-

grams. The university is sorry to lose the services of this distinguished dental educator. We wish him success in the challenge he has accepted in founding a much-needed dental school in Puerto Rico."

Dr. Rapp, 39, has done considerable research in dentistry. Among his developments are Chloresium toothpaste, a dentifrice containing chlorophyll; Topacaine, a topical anaesthetic which is applied to the dentine, eliminating the use of the needle during drilling; Benzylog, a sulfa compound used for the sterilization of root canals; and Algenic Acid, a sea weed derivative used to stop bleeding. Originally intended for use after tooth extractions, algenic acid has proved extremely valuable in major surgery, particularly brain operations.

Rapp joined Loyola's faculty in 1943 after receiving his Ph.D. from Northwestern. A native of Herrenalb, Germany, he came to the U. S. at the age of nine and attended Lane Technical High School and Lewis Institute.

FAREWELL BANQUET PLANNED FOR DEAN BARALT

The alumni of the Chicago College of Dental Surgery, Loyola University, will honor Dean A. Raymond Baralt, Jr., with a farewell banquet on July 18 in the Florentine Room of the Congress Hotel. For complete information call Dr. S. Richard Kleiman, Chairman, ARmitage 6-1112.

TO HONOR DR. L. H. JACOB

We in Illinois are justly proud to hear that the Illinois State Dental Society is honoring Dr. Laverne H. Jacob, retiring Trustee of the Eighth District of the American Dental Association, who has represented Illinois for the past seven years. He also served as Secretary of the State Society from 1940 to 1946.

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REGULAR MEETING

of the

CHICAGO DENTAL SOCIETY

May 22, 1956

Conrad Hilton Hotel

Motion was made and seconded to dispense with reading of the minutes of the meeting of April 17th. Motion carried.

It was moved and seconded to approve the minutes of the April 17th meeting as published in the May 15th issue of the FORTNIGHTLY REVIEW. Motion carried.

There were no reports of boards, standing committees or special committees.

President Solfronk called the retiring Branch Presidents to the stage and thanked them for their very good work during the past year. Each retiring President was awarded a certificate. The following men were so honored:

Marion B. Hopkins, Englewood
Rudolph U. Grieff, Kenwood-Hyde Park

Herbert C. Gustavson, North Side
Joseph S. Lebow, Northwest Side
Waldo O. Urban, North Suburban
Herbert I. Hammer, South Suburban
John J. Reilly, West Side

Richard A. Anderson, West Suburban
Dr. Solfronk then asked the retiring officers and directors to come to the stage and handed each man his certificate. The following men were so honored:

Edward W. Luebke, President-Elect
L. W. M. Hughes, Vice-President
Walter E. Dundon, Secretary
Harold H. Hayes, Treasurer
Ernest Goldhorn, Director from the Englewood Branch

Olan B. Kibler, Director from the North Suburban Branch

The following new directors were then presented by Dr. Solfronk:

Eric R. Lindholm, Englewood Branch
O. B. Scott, North Suburban Branch

The new officers were introduced and installed in the following order:

Ernest Goldhorn, Vice-President

James N. Lynch, Treasurer

George W. Teuscher, Secretary

Walter E. Dundon, President-Elect, was introduced and will be installed in May 1957.

The new President, Dr. Edward W. Luebke, was installed by Dr. G. W. Solfronk with appropriate remarks. Dr. Luebke accepted his new gavel and then presented Dr. Solfronk with his past-president's plaque. Dr. Luebke then gave his inaugural address and to him we all wish a most successful administration.

Dr. Dundon then presented red roses to Mrs. Solfronk and yellow roses to Mrs. Luebke.

Dr. Olaf Opdahl, Chairman of the Monthly Meeting Program Committee introduced Dr. Joseph F. Porto, a member of the Program Committee, who in turn introduced Dr. Carl S. Winters, the speaker of the evening.

Approximately 350 members and guests were present.

Respectfully submitted,

Walter E. Dundon, *Secretary*

LOYOLA ALUMNI GOLF OUTING

GLENDALE COUNTRY CLUB

SEPTEMBER 12, 1956

NEWS OF THE BRANCHES

ENGLEWOOD

Alas, and alack, a helping
Of woe, has descended
And lit upon our
Little Ro, and
In to the
Hospital
He had
To go
Po
Ro

Yep! Romaine Waska has been tookin away, but according to information at hand (about 5th hand) he should be back at the grindstone by the time you read this. . . . Pres. Ted Vermeulen has changed hospitals. Of course, that's nothing new, whenever any of our boys go into a hospital, it's changed by the time they come out. T'aint never the same place again. How-so-ever, Ted is now at Passavant Hospital in Chicago and doing aw-right. . . . Unca Mal Brooks had an experience down there in Springfield, so some people say. Seems like his chariot did a "One Hoss Shay" on him. It went Bruumphlyxxl.

And what do you think that Malcolm found,

When he got up and stared around.

The poor old chariot in a heap or mound,
Just like it had been to the mill and ground.

You see, of course, if you're not a dunce,
How it went to pieces all at once—

All at once and nothing first,
Just like bubbles do, when they burst.

(Apologies to Oliver)

But our Hero was undaunted, he just gathered up the pieces, turned them in on a new chariot, headed 'er up north, and before you could say *Heccaty-pelter* 49,000 times, he was rollin' along good old 79th street again. . . . Well bless my soul if someone didn't see Harold Hayes rollin' around in the roller skating rink.

Had skates on too. No kiddin'—it's a new bug that bit Harold and he says it's more fun than a barrel of monkeys, and what's more, a lot of the young middle-agers are cutting in on what used to be for kids. . . . John Lace is down to his estate on Long Boat Key, (Where else but Flawda). He's just relaxing as usual, you know—clean the inside, paint the outside, cut the grass, water the lawn, caulk the boat, fix the pier, etc., etc. and so forth. . . . The Francis O'Gradys are in the throes of building—and all of you who have been through the "throws" of building know what kind of throws Francis is frowning. Also Francis almost flew a fit coming home from Springfield when one of his tires got flat on the bottom. Had to buy a whole new tire. . . . The Lester Kalks are going to Michigan—Vassar no less, where they will visit with Lester's in-laws. What? Yes I said in-laws. Lester is very happy at his in-laws, besides it's none of your business anyway. . . . Chuck Andreas, as usual, will take off the month of August—too early to say where to yet. . . . Oh, yes, I got some news about me too. The Marion Hopkins' celebrated their 25th year of married bliss? with a quiet evening at Don, the Beachcombers. She chicken-almonded, and pressed-duckeded wi' fillice, and he zombied the evening away, and they went home thankful that they didn't have one of them there Silver Anniversary parties. Silver Anniversary parties should only be for young people. Also as you read this, the National Field Archery tournament at Colorado Springs will be over, and I will be on my way home, having been one of those who also shot. Oh! well, I really didn't want to win anyway. Whomikidn. And now, before I sign off, I would like to say a word of thanks to all of those men who put forth so much effort and energy to make Englewood the branch that it was while I was at the helm. I have

tried my best to thank you all individually but I fully realize that I have missed some, and to those fellows, now, my heartfelt thanks. Without your part, our year would not have been as good as it was.—*Marion Hopkins, stoogin' for Waska ina hospital.*

NORTH SUBURBAN

The weatherman was almost too cooperative in providing a beautiful sunny day for our annual golf outing at Thorngate C. C. It was truly a great outing for the over 50 members who braved the above 90° heat (it felt like 120° in the sand traps). . . . Modesty prevents me from naming the winner of the President's Trophy. However, I couldn't have done it if I hadn't been in so much trouble in the holes that were used to establish the handicap. Not that there weren't enough traps, but I found that you could play some of them twice if you have a real good slice. . . . The winning low net of 65 came from a most undistinguished gross of 113 by a wonderful bit of larceny known as the Peoria system. . . . The real golfers were there, too. Art Freeman maintained his winning streak by taking the low gross with an 81. . . . Bob Johnson, who took a prize for driving closest to the pin, came in next to Art with an 83. . . . Jim Lynch took second on low net with a 66, and Don Cook and Bob Matthias split the winner of the blind bogey. . . . Bill Osmanski won a prize for the longest drive, a real beauty over 320 yards. . . . There were lots of other winners and prizes. John Boyle and his golf committee did a splendid job of providing a grand outing, and it was capped off with delicious roast beef dinner. Sound good? Arrangements have already been made for next year at Thorngate on June 5th. ANY-ONE can win. . . . George Kearns tells me that the Lake County Association's golf day on June 6th came off real well. Art Freeman took that one, too, with an 84. There were 41 there for the golf day, and 71 for the Ladies' Night din-

ner that followed. . . . New officers installed at the dinner are President George Krueger, Vice-Pres. Hal Schelhas, and Secretary-Treasurer Neal Nielson. . . . Before we get away from golf, Bob Lasater fulfilled a lifetime ambition the other day by sinking a 170-yard hole-in-one at Glenview Club. . . . In the new-car department, Bob Curtis just bought a Mercury hardtop. . . . Don Palmer may have thought of a convertible at one time, but the birds in his neighborhood play too rough. It seems that one of them recently cost him a new windshield. . . . Help! Help! no more news. I'm off for some of Francis Yager's Old Fitzgerald sun tan lotion that went with the cup.—*R. G. Fischl, Correspondent.*

KENWOOD-HYDE PARK

Nobody, NO Nobody has more fun than the Kenwood bunch at a golf outing. John McBride and his committee did an unusually fine job of running our golf outing. Asher Jacobs and Jesse Carlton pitched in and helped John handle the throngs. John McBride worked so hard that he had to leave for a vacation the day after the outing for a tour of the South. Sid Berg tried out his new clubs which he claims you can't hook or slice, but he won't say whether you can hit the ball or not. Bernie Glaser beat Sid, new clubs and all. Jack Moran enjoyed the cool water in the creek but managed to hold his son-in-law, Bob Crossen, in tow. Willard Johnson and Jack Moran won duplicate prizes and have their pet names for same. Ben Herzberg, Sam Markus, Jack Sarnat and Carl Greenwald made a few side bets, but Ben says he can beat them all at Gin, anytime. The Fearless Fishers were at it again but Clint continues to hold the upper hand. Walt Dundon brought a guest, Dr. Borgia, to show him how the game is played—after seeing them tee off on the 10th it should be the other way around. Isamu Tashiro, Tom "Stranger" Humble and Rudy "The Old Pro" Grieff, made a formidable threesome, but Tash in spite

of a sprained hand came in with an 88. Tom was using Rudy's "Bomber" and hitting some fancy drives. Andy Jordan burned up the course with a sizzling 69 and Jesse Miller was close behind with a hot 74. Les Boyd, the best dressed golfer Kenwood ever had, enjoyed a fine game with E. Johnson. Henry Leib, Graham Davies and Vic Wittert burned up the course too, but they did it the hard way. Mort Fireman, Ted Fishman and Al Smith enjoyed a fine afternoon. Seymour Warady, Ted Fishman, Paul Kanchier and his son and Ray Van Dam came over from Englewood to join in the fun with the best branch in the Dental Society. Jim Lynch, an old Kenwood member and now Treasurer of the Chicago Dental Society, came all the way from Glenview and Jim said it was worth it. Bob Pollock, President-Elect of the State Society and Carl Madda, President of the Loyola Alumni Association enjoyed the famous Kenwood hospitality. Carl extends a cordial invitation to all Kenwood members to attend the **FABULOUS LOYOLA ALUMNI GOLF OUTING ON SEPTEMBER 12th AT THE GLENDALE COUNTRY CLUB**. Howard Strange, an ex-member of Kenwood, came out to see his old buddies. Mark Reardon and Elmer Ebert weren't among the golfers but they were out for dinner. Elmer has a few pups for sale exclusively for you Kenwood members. Among our guests were Walt Kooser, Ed Manter, Ed Grimes, Joe Kennedy, Jack Wilderspin, George Sterkel, Bill Vondran, Ed Landeck, Leo Ponton, Mike "Hopalong" Naughton, E. A. Sajewski—thanks for your support, fellows. The Golf Outing was a huge success and many thanks to the hard-working committee for making it so, don't be left out next year. . . . Dave Torch was elected to the Presidency of the Illinois Unit of the American Society of Dentistry for Children—Congratulations, Dave and have a very successful year. . . . Wayne Fisher has been named Chairman of the newly-formed Joint Policy Committee of the Illinois State Dental Society which is a sub-committee of the Prosthetic Dental Service Committee. Walt Dundon was

duly awarded a plaque by the National Association of Dental Laboratories at the Annual Midwest Congress for Dental Technicians Dinner and Dance held May 26 at the Conrad Hilton. The standing vote of applause almost brought down the roof—it took about five minutes to quiet the crowd. Walt also appeared as a panel member on the program. Walt spoke on "Harmonious Relationships Between the Dentist and His Laboratory." Uncle Walt also received another award, the Midwest Congress Award at our Golf Outing for his outstanding achievements in dentist and dental laboratory relations. We of Kenwood wish to congratulate you, Walt, for the outstanding service you have performed for dentistry.—Howard J. Harvey, Branch Correspondent.

SOUTH SUBURBAN

Winding up the year with a blaze of glory attendance-wise is very much in keeping with the previous records of the South Suburban group. We had a turnout of at least 45 for the golf outing and dinner at the Chicago Heights Country Club. The weather was wonderful and the food good—dinner of chicken and Polish ham. Following the dinner was the official meeting, at which time the new officers were installed and Herb Hammer turned the gavel over to Charley Cosgrove with a big smile and wishes for the best. At the same meeting a vote was taken and the result of this action was that for the forthcoming year the meetings will continue to be held on the second Tuesday of the month. Joe Daly walked off with the golf honors and as per usual got first crack for his pick of the prizes. . . . In a more serious vein, just got word that Fritz Waldschmidt is just about all set to go into the service for his hitch. As of right now, the only question mark is the date. . . . Brookstra is wearing a real big smile driving around that nice new Cadillac of his. I forgot to find out if he has the ham radio outfit installed in the new one. . . . Taylor Bell, the intrepid dentist, should be back from

his fishing stint up in the Northwoods. I hadn't had a phone call from him yet, so I gather that he just got the average large catch. . . . Before I go any further, I must give a big vote of thanks to Herb Hammer who was responsible for me getting a lot of the info on the events of the meeting as a more pressing commitment would not permit me to attend. To quote Herb, Pete Jagmin was responsible for smuggling in the Polish ham for the dinner. . . . Don Pippert is having a combination home and office along with a tree farm constructed for him out west of Blue Island. . . . That's all for now. Let me hear from you all during the long hot summer.—*H. C. Gornstein, Branch Correspondent.*

NORTHWEST SIDE

Ed Pabich and Ed Niemiec were the big point scorers in the annual Northwest Side Branch Golf Outing, at the White Pines Golf Course, June 6. In eighteen holes of the "man against man" tussle, involving forty-three participants, including dentists, dental dealers and laboratory men, Ed Pabich was "low gross" winner with a score of 81 and Ed Niemiec was "low net" winner with a score of 69. At the dinner which followed, President Frank Brzezinski, in an abbreviated speech, extended a welcome to all. Lee Schwartz, chairman of the Golf Outing, made the winning presentations to the victorious golfers. Then door prizes were distributed among the guests. For their generous donations of prizes, thanks to the Chicago dental dealers and Dental Laboratory Associations. . . . Lois Reynolds, daughter of Roger and Mrs. Corrin, is residing in Munich, Germany. Roger, Jr., completed a course in Industrial Engineering. . . . Gene Jaeger's family outgrew their home in Logan Square and now register from their new home in Park Ridge. . . . B. B. Pawlowski, tired of maintaining his large residence, decided on a smaller home and so purchased a new doll house for his Mrs. . . . Barbara Jean Ullis, daughter of Joe and Jean Ullis, is home from Alverno College

for a summer vacation. . . . Attorney Arthur Gould, son of Gerson and Mrs. Gould, received an appointment to Attorney General Brownell's office in Washington, D. C. . . . W. W. Friedman presented an office procedure on hypnosis at the Academy of Psychosomatics. . . . At a recent Dental Arts' golf tournament, Clarence Brandt was "low gross" winner and Roman Podraza was "low-net" winner. Why don't you boys make up a threesome with Cary Middlecoff, sometime? . . . Folmer Nymark is a grandpa again. It's Susan Joan. Congratulations! . . . Jim Mershimer and son, Leonard, recently discharged from the service, are headed for Iron River, Wisconsin. Happy fishing! . . . Ed Suffka and Ted Czeslawski spent a week fishing in Hayworth, Wisconsin. I understand fishing was better than business. . . . We're happy for Ted Weclaw that Margaret recovered from her recent illness and the trip to Europe is on as planned. . . . Fred Ahlers moved to Florida recently. Illness caught up with him but he is now recuperating and sends his regards to all.—*John M. Gates, Branch Correspondent.*

WEST SIDE

This is the first column I am writing as your new Branch correspondent. I hope I can do as good a job as past correspondents have done. I will need plenty of help in getting news for you. Any members with news of interest to the branch can call me at NEvada 8-2004 or drop a card to my office at 4010 W. Madison St. . . . A special meeting was held at the Midwest Hotel on June 4, to select committees for the coming year. A complete list of committee appointments will be published in a later issue of the FORTNIGHTLY. John Reilly, our new dinner chairman, was selling dinner tickets like hot cakes at \$15.00 each. This price is for six meals at our meetings next year and it really is a bargain. So, get your tickets and help support our new officers. . . . The Lawndale Dental Club had a social meeting at Mangams Cha-

(Continued on page 27)

Wanted to Purchase: Ritter Trident unit, model "B"; Ritter pump chair; wooden American cabinet. All in cream-white. Also, ¾-ton used 110 volt-age A.C. air-conditioner. Telephone PULLman 5-3230.

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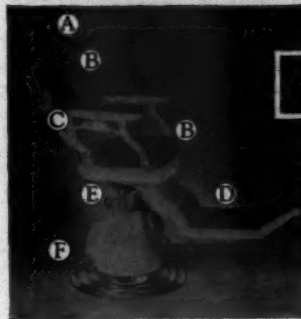
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(Continued on page 26)

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• • •
This ad appeared in a London newspaper: "For sale: Rolls Royce hearse with 1938 body."

NEWS AND ANNOUNCEMENTS

(Continued from page 13)

All members of the Illinois State Dental Society, their friends and ladies are invited to the Testimonial Dinner for Dr. Jacob to be held on Saturday, August 11th, in the Illinois Room of the LaSalle Hotel in Chicago. Dinner reservations may be made with Dr. Paul W. Clopper, Secretary, 632 Jefferson Building, Peoria 2, Illinois. Tickets, \$10.00. A reception will be held before the dinner in the Chicago Room of the hotel.

In Chicago, tickets may also be procured through Dr. R. J. Pollock, Chairman of the committee.

DECEASED MEMBERS

Alpert, Gilbert E., 15 Plaza, Park Forest; University of Illinois College of Dentistry, 1949; member of South Suburban Branch; died April 26.

Deutscher, Sidney Q., 111 N. Wabash Ave., Chicago; University of Illinois College of Dentistry, 1931; member of North Side Branch; died May 30.

Felsner, Michael, 55 E. Washington St., Chicago; University of Illinois College of Dentistry, 1929; member of North Side Branch; died May 27.

Ihle, Chester, 4753 Broadway, Chicago; Northwestern University Dental School, 1916; member of North Side Branch; died Feb. 14.

Jason, Joseph W., 2430 N. Lowell Ave., Chicago; Chicago College of Den-

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tal Surgery, Loyola University, 1935; member of Northwest Side Branch; died March 26.

Kendall, Charles H., 5133 N. Cumberland Blvd., Milwaukee, Wis., an associate member; died June 11.

Paulsen, E. O., 2003 Ridge Rd., Homewood; Chicago College of Dental Surgery, Loyola University, 1928; member of South Suburban Branch; died March.

Phillips, Herbert, R.R. #2, Lemont, Illinois; Northwestern University Dental School, 1901; member of Englewood Branch; died March 11.

Strong, L. W., 2612 Payne Ave., Evanston; Northwestern University Dental School, 1898; member of North Suburban Branch; died March 20.

Welcher, David M., 4950 Marine Drive, Chicago; Northwestern University Dental School, 1911; member of North Side Branch; died April 28.

NAVAL RESERVE DRILLS

Naval Reserve Dental Company, 9-6, 1100 Central Street, Evanston, has scheduled drills for the period commencing July 1 as follows: 6 and 13 July; 24 and 31 August; 7, 10, 28 September.

All drills are held on Friday evenings and start promptly at 8:00 p.m. All Naval Reserve Dental Officers are invited to attend any/or all drill periods. Naval Reserve Dental Ensigns are cordially welcomed and will have any questions relative to the Reserve program answered for them.—*Bernard Rabin, LCDR DC USNR.*

NEWS OF THE BRANCHES

(Continued from page 18)

teau on June 5. There were 11 in attendance including Doctors Blaha, Owen, Kaiser, Turek, Sebek, Kozak, Soucek, Chrastka, and Nienstedt. This club has been inactive for a number of years but has existed for about 25 years. I hope they can reactivate the group as they were a live-wire organization at one time. . . . Chick Vission has moved into his beautiful new home and office combination out in Skokie. I understand that it is the ultimate in modern design and convenience. . . . Herman Nedved tells me he moved into his new abode in Western Springs last September. A nice new ranch home built to his own specifications. . . . Bill Kaiser is also enjoying a new ranch home out in Summit. Good luck to you all in your new homes. . . . Stanley M. Sherman, the Lincoln Village orthodontist, is leaving on a five-week tour of Europe on July 1. He and Mrs. Sherman will enjoy visits to France, Italy, Switzerland, Israel, and England. . . . George Barnes is now practicing in his new Medical Center out in Villa Park. He has space available for a physician, so if anyone knows of a medical man looking for a suburban office, here is a good opportunity. . . . Dr. Robert Baxter, a former member of the West Side Branch, now practicing in Phoenix, Arizona, stopped by and had lunch with his former associates at 4010 W. Madison St. He was in Chicago attending the graduation of his son from the University of Illinois Dental

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School. His son intends to practice in Arizona, also. . . . I hear that John Reilly is taking advantage of his golfing partner, Leo Cahill, since his recent operation. How many strokes do you spot him, John? Does Zipprich caddy for you guys? Bailey says that he was the best caddy at Butterfield at one time. . . . I hope you all have very enjoyable vacations. Drop me a card and let me know where you have been.—*W. L. Bingaman, Branch Correspondent.*

NORTH SIDE

Well, the big day has come and gone—the North Side Golf-Outing! It was a wonderful affair, the weather unimpeachable, the company good and the food, divine. Over 100 gifts and prizes were distributed. Seven golf trophies (cups) were won, Bill Osmanski and Leon Berenson tying for first, with Bill winning a toss of a coin to come out on top. Both Bill and Leon won cups for low net. Bill Semiloff won one for low gross; and other cups were won by Dan Silberberg, Burt Morrow and Pete Peterson. Leon Berenson won a second cup for coming closest to the 6th hole. Frank Hanagan also won a cup for high score—a sitting cup, which he will probably place in its proper setting—under the bed. Among the prizes won were some very expensive gifts, such as a Transistor radio, complete with ear plug and case, won by Joe Stillerman; a large table model radio won

by Herb Gordon; Marty Unterman won a DeLuxe glass coffee maker and Morry Altus won a beautiful carving board set, and many more, too numerous to mention. It seems that the committee drew the worst prizes: Sitron and I, having won a set of toothbrushes, of all things! Earl Elman won a cocktail shaker on the raffle by a fluke. It seems that the committee decided to reverse the order of picking the winner on the raffle and called 3rd prize first, which Earl won. Had they picked them in order, Earl would have won the Transistor radio. Our guest-of-honor was our own Ed Luebke, the new President of the CDS. Jules Barrash was preparing for two years for this event, only to break a leg in his home which prevented his being present. Carl Sudakoff and Mel Schainis and their Golf Committee, did an outstanding job, but neither of them won a cup. I am told the affair was a financial success, having come out even, due, I must modestly admit, to the gimmick I ran at the 6th hole. I hope you fellows won't think too harshly of me for pressuring you into playing a game of skill at the 6th hole. The money thus raised helped a lot to cover the costs of the prizes and gifts. Morry Altus had a good suggestion, I thought. He suggests that we combine 2 or 3 branches, say West Side, Northwest and North Side together in one large and successful golf outing, without the competition of two or more affairs on one day. What do you think? I hear that the West Side has started a study group

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of about 10 or 12 selected men. They meet in Joe Josh's office and so far, have met on the second Tuesday of the month. They have elaborate plans for outstanding men from all over the country to lead the men in new technics. . . . The A O held its Seminar at Waukesha this year on June 22nd, 23rd and 24th. . . . Joe Gordon's girls all got married and are leaving him without help. Got a girl to spare? . . . Warren Gerber bought a Volkswagon and now only buys gas about once a month. . . . Clif Alsin, our new Dinner Committee Chairman, is busy looking for a good place to meet and eat at our monthly meetings. . . . It seems that many men have stayed away from dinner because they did not like the food at the Edgewater. Call him if you have any ideas. . . . On Social Security, Earl recommends that all of us should apply for our Social Security number. You can either get it by writing to the SS office, or the Officers of our branch will arrange to have applications at our first monthly meeting. It was pointed out to me that the tragic death of our Sid Deutsch, is a tragic example of the need for OASI for dentists. Had we been signed up for Social Security, the family of Sid Deutsch would have received \$2,400.00 a year for 5 years and another \$2,000.00 a year for an additional 7 years, just like any other employed individual's family. . . . Our own Ed Luebke, President of the CDS, presided at his first Board of Directors meeting, and to celebrate the occasion, wine flowed freely with the veal

scallopini dinner that was served. The Board announced that the Eli Lilly trip is scheduled in September for the CDS members. Look for the announcement in the coming FORTNIGHTLYS. The Cleveland Society has already taken the trip, Cincinnati will precede us by a week. . . . By the way, have you seen the bar apron that Herb Gustavson won at the Golf Outing? Ask him to demonstrate it. . . . Our new Secretary, George Teuscher is leaving for a three-month summer world tour, starting out West, going through Australia, Europe and winding up by coming home from the East. . . . Raymond Baralt is leaving Loyola for Puerto Rico, where he will set up a dental school. . . . I am sorry to report that Sam Jacobson is still a very sick man at Edgewater Hospital, but is getting better. . . . Jack Langer has been appointed to the General Clinics Committee of the Midwinter Meeting where he will help me on that committee. . . . How about more news? I would like to have about ten men, from various parts of the city to be on the Editorial Committee with me, to take turns in writing this column and funneling in news. Abe Hoffman and Herb Krummel have offered to help. Will you?—*I. H. Shapiro, Branch Correspondent.*

WEST SUBURBAN

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the summer months, I, like all other members, felt our former correspondent, Bob Pollock, could easily find enough to give the readers. "Taint so." If you have any bits of news of yourself or dental brethren, drop a line or card to S. W. Cotter, 14 S. LaGrange Rd. In reviewing past issues we find that only a small percentage of the members ever make the printed page. What about you fellows that we never get to write about—send in your news. . . . Chairman Les Butler, West Sub. Study Club, Bill Sisson, West Sub. Round Table, Louis Pavlicek, West Sub. Program, would appreciate suggestions on the type programs you would like them to arrange for the coming year. . . . On Sunday, June 10, Barney and Mrs. Mulacek invited many friends to be present at the blessing of the Shrine of the Benediction of The Sacred Heart erected on their estate. The service was conducted by Rt. Rev. Ambrose Ondrak, O.S.B. Following the blessing, a festive spread of food was served. Spotted many familiar faces around the grounds—the Lyznickis, Marchelyas, Lenarts, Frank Novak, and others too numerous to mention. . . . As this column is being written before the C. D. S. Golf Tournament, our prediction is that Dick Anderson and Paul Swanson will be among the top prize winners. . . . This golf game must hold some attraction as A. V. Anderson of La Grange is retiring from practice to devote more time to his game. He will be available for a game seven days a week after

July 1st. . . . Since sports are our summer news, several items on the Izaak Walton group are in order. Les Braun just returned from Florida with a few barracudas. Now he is ready to go to Canada for pike. . . . Chuck Janicki and Louis Anderson of Villa Park inveigled Dave Thompson of Elmhurst to go fishing up Wisconsin way over the Memorial holiday. . . . John Ronning also tried his luck in Canada as a Waltonian. . . . We learned Fred Hawkins, one of our news gatherers, was visiting his mother in Evansville when called for news pickups. . . . John Frymark took in the Indianapolis races to find out what he missed by not being a race driver. . . . Ray Baralt bought a new station wagon. He wanted to be sure he had it for his new venture. He has been chosen to be the dean of the newly founded dental school in Puerto Rico. For the next year he will be making plans for the school. Anyone feeling the urge to become a professor—make your application to Ray. . . . Werner Gressens, the perfect host, ran a party for his fellow alumni. Also addressed the senior class of Loyola. . . . "Busy Ben" Pollock and several members from other branches are touring the southern part of the state in the interest of dentistry. Last stop Benton, Ill., to pay honor to Bill McKee, Sec. of the Ill. State Dental Examiners on his fiftieth anniversary in dentistry. . . . Merle Long returned from Penn. with his Golden Retriever (dog to you, nothing to do with old gold), a ribbon winner. . . . At this time John Poronsky has trouble not only with dental arches but his own as he just finished his two-week reserve stint with Uncle Sam. . . . Our sick committee (maybe they are) reports Frank Dowling and Lee Hein back in their respective offices. . . . LeRoy Sanden to Elmhurst Hospital for surgery. Don't make the mistake, LeRoy, while under the influence of anesthesia, and say "open wider, please." . . . Mark Low and son off for a California vacation. . . . New York Yankee spotters keeping eye on future material, Bob Atterbury's son, a hot prospect in the Little League (English expression not corny).—*Sylvester W. Cotter, Branch Correspondent.*

THE FULL LOWER DENTURE

(Continued from page 9)

cally acceptable, lip inevitably have a similar outcome. It may be argued that this posterior positioning of the anterior teeth is liable to restrict the tongue movements. This is not found to be so provided adequate room is given to the root of the tongue by setting narrow posterior molar teeth well buccally, and always lateral to the mylohyoid ridge.

THE CHANGING BONE

Examination of dried specimens, surgical dissections, and examination of radiographs confirm the fact that sometimes the bone of the lower anterior alveolar ridge is non-cortical in nature. In such cases an X-ray shows the free surface of the bone to be formed of vertically running trabeculae; occasionally vertical radiolucent areas known as nutrient canals are also present, as are also osteophytes. These latter are spicular trabeculae arising sharply from the surface of the ridge. In this non-cortical bone, and particularly when there is a spicular reaction, the condition is far from ideal from the viewpoint of equal distribution of load. When it is also considered that the mucosa and submucosa covering this type of bone may well have become very thin and quite unable to absorb energy by dint of their resilience, it becomes evident that the whole of the load placed on the denture is transmitted over the projecting bony trabeculae. Overlying nerve endings are stimulated and pain results. The solution of this vexing problem can only lie in the replacement of the lost resilient layer, which was formerly present in the overlying soft tissues in the denture itself. The development of a satisfactory soft lining material is accordingly one of the great needs of prosthetic dentistry.

The other unfavorable characteristic of alveolar bone is its ability to resorb. Before any attempt can be made to control this, its cause must be elucidated. It is certainly not sufficient to say that

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"the teeth are lost, the alveolar bone is redundant and resorbs." Further pressure beyond the physiological limit cannot completely account for resorption, as a flat edentulous alveolar ridge is often found posterior to natural lower standing teeth when no denture is worn. In these cases where trauma is an obvious cause of loss of bony structure we often find replacement by fibrous tissue to perpetuate the original alveolar form. This feature is especially seen under a full upper denture with porcelain teeth which opposes six natural lower anteriors and where a lower denture is not worn; here there is fibrous tissue replacement of the lost bone giving the ridge a mobility on palpation. A similar change is the mushroom-like fibrous swelling present over the crest of the so-called "knife-edge" lower alveolar ridge. Moreover, Wolff's Law cannot account for the resorption; this only accounts for an increase or decrease in the number of component bony trabeculae. The resolution of this problem can only be effected by the combined effort of specialist scientists and clinicians but the possibility must be borne in mind that resorption may be due to the moulding force imposed on the bone by a highly differentiated mucosa atrophying, and tending to establish a reduced surface area. Such a hypothesis would not conflict with known factors which effect bone structure especially the hormones; in fact it might well be that the cause of resorption might be found to lie in a changed hormonal balance acting on

both bone and mucosa. Certainly at the menopause a thin, poorly keratinized mucosa may be seen in association with a very quickly resorbing alveolar ridge.

SUMMARY

A changing concept of the anatomy of the mucosa, musculature, and bone of the older edentulous subject has been described and some practical points concerning the full lower denture have been treated.

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